Third United Nations
International Conference
on the Peaceful Uses
of Atomic Energy

A/CONF.28/A/294
USSR
February 1964
Original: RUSSIAN

Confidential until official release during Conference

Abstract

TRENDS OF ATOMIC POWER DEVELOPMENT
(New economic data)

N.M.Sinev, B.B.Baturov, V.M.Shmelev

Leaving the experimental and research stage atomic power generation is now a practical feasibility and will play an important role in the power industry of several countries in the nearest future.

A wide-scale development of atomic power generation must be based on thorough scientifically substantiated advance planning.

Selection of the most effective version of atomic power development that would enable the best use to be made of the material and labour resources is a problem which has a paramount importance for the national economy.

This necessitates the comprehensive comparative analysis of economic efficiency with due consideration for the possible lines of atomic power development for many years to come.

The planned nature of the Socialist economy permits such an analysis not be confined to separate atomic power stations but to be made comprehensively within the framework of national or state economic plans taking into account the required tempoes of nuclear power development and the need for the setting-up of specialized industries.

The paper discusses the basic principles of this analysis and evaluates in a comparative way different versions of nuclear power development with reactors of various types.

The results of these analyses prompt a number of important conclusions as to the future trends of development of nuclear power generation.

Translation provided by courtesy of the submitting Government